



## Sustainable Building Retrofit and Energy Optimization

Guest Editors:

**Dr. Gerardo Maria Mauro**

Department of Engineering,  
Università degli Studi del Sannio,  
Piazza Roma 21, 82100  
Benevento, Italy

**Prof. Dr. Mohamed Hamdy**

Norwegian University of Science  
and Technology, NO-7491  
Trondheim, Norway

Deadline for manuscript  
submissions:

**closed (31 December 2021)**

### Message from the Guest Editors

You are already well aware that building energy optimization and sustainable development are on the same track. The building sector highly affects the critical issues of our generation, such as climate change, energy poverty, and the economic crisis. In most countries around the world, it is responsible for around 30–40% of energy consumption, with a similar share linked to greenhouse gas emissions. Therefore, the optimization of building energy design and retrofit is a “must” to promote sustainability. Indeed, such an achievement would yield substantial reductions of energy consumption, running costs, polluting emissions, other than improved indoor environmental quality. In this regard, a great deal of attention should be addressed to the energy retrofit of existing buildings, the turnover rate of the existing stock being very low (around 1%) in most countries, especially in developed ones. Finally, the words “sustainable”, “building”, “retrofit”, “energy”, and “optimization” (forming the SI title) provide concepts that need to be coupled to achieve a better life for us and our children.





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Marc A. Rosen**

Faculty of Engineering and  
Applied Science, University of  
Ontario Institute of Technology,  
Oshawa, ON L1G 0C5, Canada

## Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

## Contact Us

---

*Sustainability* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](https://twitter.com/Sus_MDPI)